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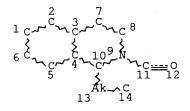
FILE COVERS 1907 - 31 Aug 2004 VOL 141 ISS 10 FILE LAST UPDATED: 30 Aug 2004 (20040830/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

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L3 STR



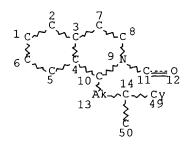
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DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES: RING(S) ARE ISOLATED OR EMBEDDED NUMBER OF NODES IS 14

STEREO ATTRIBUTES: NONE

L5 3465 SEA FILE=REGISTRY SSS FUL L3

L20 STR



NODE ATTRIBUTES:

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AT 50

DEFAULT MLEVEL IS ATOM

DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED

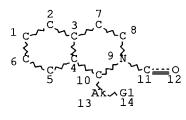
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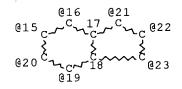
STEREO ATTRIBUTES: NONE

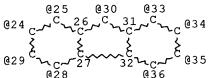
L21

5 SEA FILE=REGISTRY SUB=L5 SSS FUL L20

L22 STR







VAR G1=15/16/21/22/23/19/20/24/25/30/28/29/33/34/35/36

NODE ATTRIBUTES:

DEFAULT MLEVEL IS ATOM

DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 36

STEREO ATTRIBUTES: NONE

L23 0 SEA FILE=REGISTRY SUB=L5 SSS FUL L22

L24 5 SEA FILE=REGISTRY ABB=ON PLU=ON (L21 OR L23)

L25 4 SEA FILE=HCAPLUS ABB=ON PLU=ON L24

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=> d ibib abs hitstr 125 1-4

L25 ANSWER 1 OF 4 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

CORPORATE SOURCE:

1996:335639 HCAPLUS Full-text

DOCUMENT NUMBER:

125:58291

TITLE:

Reaction of 3,4-dihydroisoquinolines with 1,3-dicarbonyl compounds and carboxylic acid

chlorides. Novel synthesis of 2-(2-

acyltetrahydroisoquinolin-1-yl)-1,3-dicarbonyl

compounds

AUTHOR(S):

Akhrem, A. A.; Borisov, E. V.; Chernov, Yu. G. Inst. Bioorg. Khim., Akad. Nauk Respub. Belarus,

Minsk, Belarus

SOURCE:

Zhurnal Organicheskoi Khimii (1995), 31(11), 1715-1720

CODEN: ZORKAE; ISSN: 0514-7492

PUBLISHER:

Nauka

DOCUMENT TYPE:

Journal

LANGUAGE:

Russian

Reaction of 3,4-dihydroisoquinolines with carboxylic acid chlorides and 1,3-AB dicarbonyl compds. (1,3-diketones and  $\beta$ -keto esters) produced a series of 2-(2acyltetrahydroisoguinolin-1-yl)-1,3-dicarbonyl compds. The stereochem. and tautomerism of the products were discussed.

175983-15-0P 175983-16-1P IT

RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of 2-(2-acyltetrahydroisoquinolin-1-yl)-1,3-dicarbonyl compds. by reaction of 3,4-dihydroisoquinolines with 1,3-dicarbonyl compds. and carboxylic acid chlorides)

175983-15-0 HCAPLUS RN

Pentanedioic acid, 2,4-bis(2-acetyl-1,2,3,4-tetrahydro-6,7-dimethoxy-1-CN isoquinolinyl)-3-oxo-, diethyl ester (9CI) (CA INDEX NAME)

175983-16-1 HCAPLUS RN

Pentanedioic acid, 3-oxo-2,4-bis[1,2,3,4-tetrahydro-6,7-dimethoxy-2-(1-CN oxobutyl)-1-isoquinolinyl]-, diethyl ester (9CI) (CA INDEX NAME)

L25 ANSWER 2 OF 4 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

1996:162169 HCAPLUS Full-text

DOCUMENT NUMBER:

124:316960

TITLE:

Reaction of 3,4-dihydroisoguinolines with  $\beta$ -keto

ester enol acylates

AUTHOR(S):

Akhrem, A. A.; Borisov, E. V.; Chernov, Yu. G.

CORPORATE SOURCE:

SOURCE:

Inst. Bioorg. Khim., Minsk, Belarus Zhurnal Organicheskoi Khimii (1995), 31(8), 1241-5

CODEN: ZORKAE; ISSN: 0514-7492

PUBLISHER:

DOCUMENT TYPE:

LANGUAGE:

Nauka Journal Russian

GΙ

Eto2CCHCOCH2CO2Et

Dihydroisoquinolines I (R1 = H, MeO) reacted with R2CO2CMe:CHCO2Et (R2 = Ph, Me) to AΒ give adducts II. I (R1 = MeO) reacted with EtO2CCH2C(OCOR):CHCO2Et (R = Me, Pr) to give adducts III and IV.

ΙT 175983-15-0P 175983-16-1P

RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of)

175983-15-0 HCAPLUS RN

Pentanedioic acid, 2,4-bis(2-acetyl-1,2,3,4-tetrahydro-6,7-dimethoxy-1-CN isoquinolinyl)-3-oxo-, diethyl ester (9CI) (CA INDEX NAME)

175983-16-1 HCAPLUS RN

Pentanedioic acid, 3-oxo-2,4-bis[1,2,3,4-tetrahydro-6,7-dimethoxy-2-(1-CN oxobutyl)-1-isoquinolinyl]-, diethyl ester (9CI) (CA INDEX NAME)

L25 ANSWER 3 OF 4 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

1967:516903 HCAPLUS Full-text

DOCUMENT NUMBER:

67:116903

TITLE:

Reaction of vinyl bromide and substituted vinyl bromides with lithium in tetrahydrofuran with

formation of lithium acetylides

AUTHOR(S):

Schoepf, Clemens; Strauss, Hans J.; Hoehn, Monika;

Hutzler, Anneliese

CORPORATE SOURCE:

Tech. Hochsch., Darmstadt, Fed. Rep. Ger.

SOURCE:

Monatshefte fuer Chemie (1967), 98(4), 1274-309

CODEN: MOCHAP

DOCUMENT TYPE:

Journal

LANGUAGE:

German

Treatment of 2-bromopropene and 2-bromo-1-butene with Li in boiling tetrahydrofuran AB (THF) led to Li acetylides, instead of the expected Li alkenes. The major products were the free alkene and LiBr, with a smaller amount of LiH. Similarly, with vinyl bromide the acetylide was formed together with LiH, while Li vinyl was not found. cis-1-Bromo-1-butene also gave the acetylide. In THF the formation of Li acetylide from 2-bromopropene proceeded at -65°, while in Et20 reflux temps. were required. Acetylides were also obtained from PhC.tplbond.CH and 1-octyne, while very little reaction was observed with HC.tplbond.CH. The mechanism of acetylide formation is discussed.

### 16557-12-3P 16557-17-8P IT

RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of)

16557-12-3 HCAPLUS RN

1-Isoquinolineethanol, 2-benzoyl-1,2,3,4-tetrahydro-6,7-dimethoxy-\alpha-CN phenyl- $\alpha$ -1-propynyl- (8CI) (CA INDEX NAME)

RN 16557-17-8 HCAPLUS

CN l-Isoquinolineethanol, 2-acetyl-1,2,3,4-tetrahydro-6,7-dimethoxy- $\alpha$ -phenyl- $\alpha$ -1-propynyl- (8CI) (CA INDEX NAME)

$$CH_2$$
 $CH_2$ 
 $CH_2$ 

L25 ANSWER 4 OF 4 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

1964:418195 HCAPLUS Full-text

DOCUMENT NUMBER:

61:18195

ORIGINAL REFERENCE NO.:

61:3079h,3080a-h

TITLE:

Quinolizine derivatives

INVENTOR(S):

Schoepf, Clemens; Klug, Rudolf

PATENT ASSIGNEE(S):

E. Merck, A.G.

SOURCE:

8 pp.

DOCUMENT TYPE:

Patent

LANGUAGE:

Unavailable

PATENT INFORMATION:

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	US 3132147		19640505	US	
	BE 632428			BE	
	FR 1431659			FR	
	GB 977725			GB	
PRIO	RITY APPLN. INFO.:			DE	19610619

OTHER SOURCE(S):

CASREACT 61:18195

GI For diagram(s), see printed CA Issue.

AB Vinyl bromide (105 g.) in 240 ml. tetrahydrofuran (THF) is treated with 24 g. Mg. in 210 ml. THF to form the Grignard compound, an addnl. 350 ml. THF added, 60 g. 1-phenacyl-6,7-dimethoxy-1,2,3,4-tetrahydroisoquinoline added with stirring and cooling, the mixture kept at 35° 4.5 hrs. and decomposed with ice-cooling with 250 ml. of saturated NH4Cl, the THF layer separated, and the residue extracted with CH2Cl2 to give, from the combined organic solvents, 68% [(6,7-dimethoxy-1,2,3,4-tetrahydro-1-isoquinolyl)methyl] (phenyl) (vinyl)carbinol (I), m. 126-8° (iso-PrOH); HCl salt m. 210-12° (EtOH); HBr salt m. 215-16° (EtOH). A solution of 14.8 g. I.HCl in 61 ml. SOCl2 is kept at room temperature 16 hrs. and the SOCl2

evaporated to yield 62.6% 1-(6,7-dimethoxy-1,2,3,4- tetrahydro-1-isoquinolyl-2phenyl-4-chloro-2-butene-HCl (II), m. 163-4° (EtOH). II (10 g.) is agitated with 45 ml. CH2Cl2 and 25 ml. 2N NaOH 15 min.; the combined organic solvents give 72% 1,4,6,7-tetrahydro-9,10-dimethoxy-2-phenyl-11bH-benzo[a]quinolizine (III), m. 123-5° (iso-PrOH); HCl salt m. 200-1°; HBr salt m. 214-16°. A solution of 440 mg. III.HCl in 22 ml. MeOH and 1 ml. 2N NaOH is hydrogenated at room temperature under normal pressure in the presence of Raney Ni, the catalyst filtered off, the solvent evaporated, the residue mixed with 5 ml. H2O and extracted with 4 portions CH2Cl2, and the exts. evaporated to give 75% 1,2,3,4,6,7-hexahydro-9,10-dimethoxy-2-phenyl-11bH- benzo[a]quinolizine, m. 89-90° (iso-PrOH); HCl salt m. 229-30°; HBr salt m. 202-4° (decompn). A solution of 60 g. 6,7-dimethoxy-3,4-dihydroisoquinoline in 700 ml. H2O and 250 ml. MeOH are added to a citrate-buffered aqueous solution (pH 4.6) and mixed with 60 g. of BzCH2CO2H in 200 ml. 2 N NaOH, the volume made up to 2 l. with H2O and MeOH, the mixture kept 20 hrs. at pH 4.6 and 25°, and 250 ml. 2N NaOH added to give 88% 1-phenacyl - 6,7 - dimethoxy - 1,2,3,4 - tetrahydroisoquinoline, m. 138-9° (Me2CO). The following were similarly prepd: bis[(2-benzoyl-6,7-dimethoxy - 1,2,3,4 - tetrahydro - 1 - isoquinolyl)methyl](1-buten-2-yl)carbinol (IV), m. 225-7° (HCONMe2-EtOH); bis [(6,7 - dimethoxy - 1,2,3,4 - tetrahydro - 1 isoquinolyl)methyl] -[1-buten-2-yl]carbinol, m. 126-8° (di-HCl salt m. 250-2°); 1-(6,7-dimethoxy-1,2,3,4-tetrahydro-1-isoquinoly1) - 2 - [(6,7 - dimethoxy-1,2,3,4tetrahydro-1-isoquinoly1)methyl] - 3- chloromethyl-2-pentene-2HCl, m. 230-3°;  $\alpha,\alpha'$ bis(2-benzoyl-6,7-dimethoxy-1,2,3,4-tetrahydro-1-isoquinolyl)acetone-2HBr, m. 204-5° (meso form m. 178-80°; dibenzoyl derivative m. 198°); bis[(2-benzoyl-6,7dimethoxy-1,2,3,4-tetrahydro- 1-isoquinoly1)methyl] (1 - buten - 2-yl)carbinol; bis [(6,7-dimethoxy-1,2,3,4-tetrahydro-1-isoquinolylmethyl] (1-buten-2-yl)carbinol; 2dehydroemetine(3-ethyl-9,10-dimethoxy-1,6,7,11b-tetrahydro-2-[(6,7-dimethoxy-1,2,3,4- tetrahydro-1-isoquinolyl)methyl]-4H- benzo[a]quinolizine, m. 112-14° and 194-5° (di-HCl salt m. 248-50°);  $\alpha,\alpha'$ -bis(N-benzoyl-6,7-dimethoxy-1,2,3,4tetrahydro-1-isoquinolyl) acetone, m. 178-80°;  $\alpha,\alpha'$ -bis (6,7-dimethoxy-1,2,3,4tetrahydro-1-isoquinoly1)acetone, m. 144-5° (di-HCl salt m. 193-5°; methanesulfonate m. 173-4°);  $\alpha,\alpha'$ -bis(2-acetyl-6,7-dimethoxy-1,2,3,4-tetrahydro-1isoquinolyl)acetone, m. 191-2°; bis[(6,7-dimethoxy-1,2,3,4-tetrahydro-1isoquinolyl)methyl]-1-buten-2-ylcarbinol-2HCl, m. 193-201°; 9,10-dimethoxy-1,6,7,11b-tetrahydro-2-heptyl-4H-benzo [a] quinolizidine; 1-phenacyl-2-benzoyl - 6,7 - dimethoxy-1,2,3,4- tetrahydroisoquinoline, m. 190-3°; [(2-benzoyl-6,7-dimethoxy-1,2,3,4 - tetrahydro - 1 - isoquinolyl)methyl]-(phenyl)(1-buten-2- yl)carbinol, m. 164-6° (AcOH ester); (6,7-dimethoxy-1,2,3,4-tetrahydro-1-isoquinoly1)-3-phenyl-2-isoquinoly1)ethyl - 1-buten-3-ol-HCl, m. 191-3° (iso-PrOH) [free base m. 115-16° (iso-PrOH-H2O)]; 1,4,6,7-tetrahydro-9,10-dimethoxy-2-phenyl-3-ethyl-11bH- benzo[a]quinolizine-HCl, m. 209-12° (iso-PrOH) (perchlorate m. 198-9°); 3-ethyl-9,10-diethoxy-1,6,7,11btetrahydro-2-[(1,2,3,4- tetrahydro-6,7 - diethoxy - 1 - isoquinolyl)methyl]-4H-benzo [a] quinolizine-2HCl; 3-ethyl-9,10-diethyl-1,6,7,11b-tetrahydro-2-[(1,2,3,4 tetrahydro - 6,7 - diethyl - 1 - isoquinolyl)-methyl]-4H-benzo[a] quinolizine -2HCl; 1,4,6,7- tetrahydro-2-phenyl-11bH-benzo [a] quinolizine-2HCl; 1,2,3,4,6,7-hexahydro-2-phenyl- 11bH-benzo [a] quinolizine; 1,2,3,4,6,7-hexahydro-9-chloro-2-phenyl- 11bHbenzo[a] quinolizine (V); 3-ethyl-9,10-methylenedioxy - 1,6,7,11b - tetrahydro - 2 -[(1,2,3,4 - tetrahydro-6,7-methylenedioxy - 1 - isoquinolyl)methyl] - 4H - benzo[a] quinolizine;  $\alpha, \alpha'$ -bis (2-acetyl-6,7-methylenedioxy-1,2,3,4-tetrahydro-1isoquinolyl)acetone-2HBr, m. 243-7° 188-9° (decomposition). 96377-86-5, 1-Isoquinolineethanol, 2-benzoyl- $\alpha$ -(1ethylvinyl)-1,2,3,4-tetra-hydro-6,7-dimethoxy- $\alpha$ -phenyl-

TI(preparation of)

96377-86-5 HCAPLUS RN

1-Isoquinolineethanol, 2-benzoyl- $\alpha$ -(1-ethylvinyl)-1,2,3,4-tetrahydro-CN 6,7-dimethoxy- $\alpha$ -phenyl- (7CI) (CA INDEX NAME)

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FILE COVERS 1907-1966 FILE LAST UPDATED: 01 May 1997 (19970501/UP)

This file contains CAS Registry Numbers for easy and accurate substance identification. Title keywords, authors, patent assignees, and patent information, e.g., patent numbers, are now searchable from 1907-1966. TIFF images of CA abstracts printed between 1907-1966 are available in the PAGE display formats.

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=> s 124

L26

1 L24

=>

=>

=> d all 126

L26 ANSWER 1 OF 1 CAOLD COPYRIGHT 2004 ACS on STN

AN CA61:3079h CAOLD

TI 8-aminoquinoline

AU Korzunov, N. P.

DT Patent

TI quinolizine derivs.

AU Schoepf, Clemens; Klug, R.

PA Merck, E., A.-G.

DT Patent

PATENT NO. KIND DATE

\_\_\_\_\_ \_\_\_

PI SU 161757

DAVIS 10/812, 245 1964 US 3132147 ΡI BE 632428 FR 1431659 GB 977725 2649-50-5 4914-30-1 21319-81-3 47728-07-4 66833-37-2 94910-05-1 IT96269-28-2 96369-40-3 96369-41-4 **96377-86-5** 96670-94-9 96706-87-5 97014-12-5 97924-15-7 97924-16-8 97924-37-3 97925-18-3 98588-30-8 100232-63-1 101057-23-2 101060-09-7 104645-01-4 106401-82-5 107225-50-3 112001-55-5 => select hitrn 125 NO ANSWERS SELECTED. THE ANSWER SET WAS CREATED IN FILE 'HCAPLUS'. USE THE FILE COMMAND TO CHANGE TO THE CORRECT FILE. => select hitrn 126 ENTER ANSWER NUMBER OR RANGE (1-):. 'HITRN' IS NOT A VALID FIELD CODE FOR FILE 'CAOLD' ENTER DISPLAY CODE (IT) OR ?:rn E1 THROUGH E25 ASSIGNED => select hit rn 126 ENTER ANSWER NUMBER OR RANGE (1-):. E26 THROUGH E26 ASSIGNED => fil reg FILE 'REGISTRY' ENTERED AT 11:37:02 ON 31 AUG 2004 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT. PLEASE SEE "HELP USAGETERMS" FOR DETAILS. COPYRIGHT (C) 2004 American Chemical Society (ACS) Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem. 30 AUG 2004 HIGHEST RN 736108-36-4 STRUCTURE FILE UPDATES: DICTIONARY FILE UPDATES: 30 AUG 2004 HIGHEST RN 736108-36-4 TSCA INFORMATION NOW CURRENT THROUGH MAY 21, 2004 Please note that search-term pricing does apply when conducting SmartSELECT searches. Crossover limits have been increased. See HELP CROSSOVER for details. Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at: http://www.cas.org/ONLINE/DBSS/registryss.html => => => s e26L27 1 96377-86-5/RN => => => d ide can 127 1

RN **96377-86-5** REGISTRY

CN 1-Isoquinolineethanol, 2-benzoyl- $\alpha$ -(1-ethylvinyl)-1,2,3,4-tetrahydro-6,7-dimethoxy- $\alpha$ -phenyl- (7CI) (CA INDEX NAME)

MF C30 H33 N O4

LC STN Files: BEILSTEIN\*, CA, CAOLD, CAPLUS

(\*File contains numerically searchable property data)

DT.CA CAplus document type: Patent

RL.P Roles from patents: NORL (No role in record)

$$\begin{array}{c} \text{MeO} \\ \\ \text{MeO} \\ \end{array}$$

\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

- 1 REFERENCES IN FILE CA (1907 TO DATE)
- 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)
- 1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 61:18195